## What is claimed is:

- 1. A method for performing a coronary artery bypass procedure for supplementing a flow of blood to a coronary artery, said method comprising: forming a blood flow path from a heart chamber directly to said coronary artery and maintaining said blood flow path open during both systole and diastole.
- 2. A method according to claim 1 comprising selecting a blood conduit having a first end and a second end and placing said first end in blood flow communication with said chamber and placing said second end in blood flow communication with said coronary artery.
- 3. A method according to claim 2 wherein said conduit is selected with a cross-sectional area sufficient for blood to flow through said conduit at a volumetric flow rate to effectively reduce signs and symptoms of reduced coronary blood flow.
- 4. A method according to claim 2 comprising:
  - a. inserting said first end into said chamber through a wall of said chamber and retaining said first end in said wall and in blood flow communication with said blood within said chamber; and
  - b. inserting said second end into said coronary artery and retaining said second end in said

coronary artery and in blood flow communication with a lumen of said coronary artery.

- 5. A method according to claim 1 wherein said coronary artery is at least partially obstructed at a predetermined site, said method further comprising forming said path directly to said coronary artery downstream of said site.
- 6. A method according to claim 1 further comprising reducing but not blocking blood flow through said path during diastole.
- 7. A method according to claim 1 comprising directing blood flow through said path to reduce direct impingement of said blood flow upon a wall of the coronary artery.
- 8. A method according to claim 1 comprising forming said path through said wall and through a lower wall of said artery.
- 9. An apparatus for use in a coronary artery bypass procedure for supplementing a flow of blood to a coronary artery, said apparatus comprising:
  - a. a blood flow conduit having a first end adapted to be inserted into and retained within a wall of a heart chamber containing oxygenated blood with said first end in blood flow communication with blood contained within said chamber;
  - b. said conduit having a second end adapted to be inserted into and retained within said coronary

- artery with said second end in blood flow communication with a lumen of said coronary artery; and
- c. said conduit adapted to define an open blood flow path during both diastole and systole.
- 10. An apparatus according to claim 9 wherein said conduit has a cross-sectional area sufficient to pass blood at a volumetric flow rate to supply blood to cardiac musculature served by said coronary artery in an amount to reduce signs and symptoms of reduced coronary blood flow.
- 11. An apparatus according to claim 9 wherein said conduit has a geometry selected to bias forward flow of blood from said first end toward said second end while not blocking blood flow from a direction from said second end toward said first end.
- 12. An apparatus according to claim 9 wherein said second end is sized to be inserted into and retained within said coronary artery on a downstream side of a predetermined obstruction site.
- 13. An apparatus according to claim 9 comprising a deflection surface for blocking blood flow through said conduit from impinging directly upon said coronary artery.
- 14. An apparatus according to claim 9 wherein said conduit is sized to extend through said heart chamber wall and a lower wall of said coronary artery.

15. An apparatus according to claim 9 wherein said conduit is biased for a net volumetric blood flow from said first end toward said second end.